

**Abstract**

Incident light is photoelectrically converted in a one-unit pixel photoelectric converter section 300, while an electronic shuttering time two pixel mixture signal charge 301, a field signal charge 1 302, and a field signal charge 2 303, are transferred respectively with 8-phase clock by HCCD1 304, HCCD2 305, and HCCD3 306. After passing through a CDS & clamp circuit 307, they are subjected to a decision of signal saturation by a signal decision circuit 309. After having their outputs selected by a signal selector circuit 308, they are subjected to calculating processing in a signal processing circuit 310 to execute image signal reproduction.